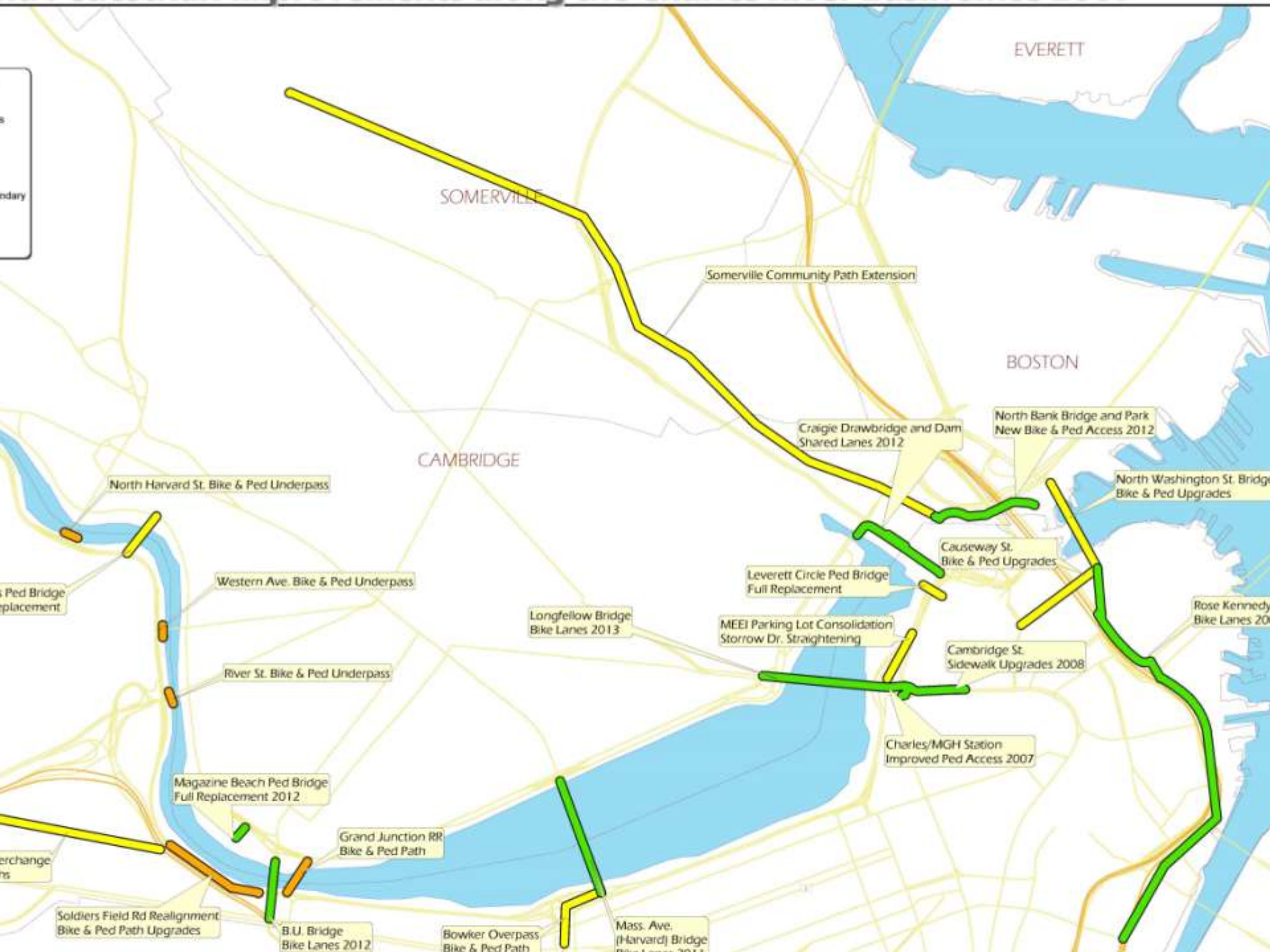


# GEODOT/ARCGIS ONLINE AT MASSDOT

Pete Sutton



EVERETT

SOMERVILLE

Somerville Community Path Extension

BOSTON

CAMBRIDGE

Craigie Drawbridge and Dam  
Shared Lanes 2012

North Bank Bridge and Park  
New Bike & Ped Access 2012

North Washington St. Bridge  
Bike & Ped Upgrades

North Harvard St. Bike & Ped Underpass

Causeway St.  
Bike & Ped Upgrades

Western Ave. Bike & Ped Underpass

Leverett Circle Ped Bridge  
Full Replacement

Longfellow Bridge  
Bike Lanes 2013

MEEI Parking Lot Consolidation  
Storow Dr. Straightening

Cambridge St.  
Sidewalk Upgrades 2008

River St. Bike & Ped Underpass

Charles/MGH Station  
Improved Ped Access 2007

Magazine Beach Ped Bridge  
Full Replacement 2012

Grand Junction RR  
Bike & Ped Path

Rose Kennedy  
Bike Lanes 2012

Ped Bridge  
Replacement

Interchange  
Upgrades

Soldiers Field Rd Realignment  
Bike & Ped Path Upgrades

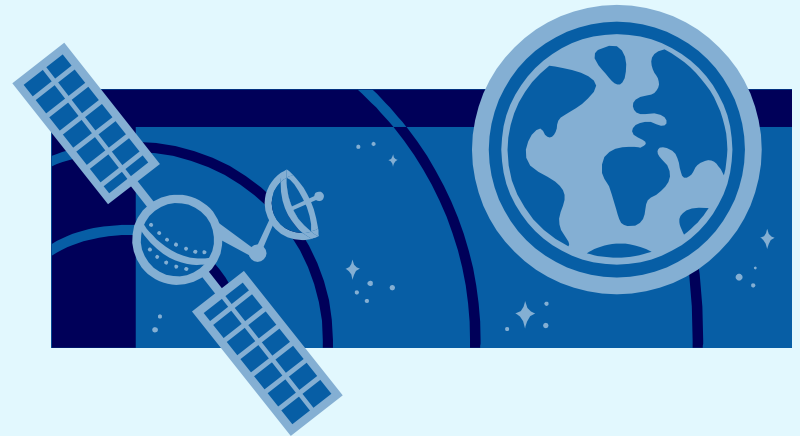
B.U. Bridge  
Bike Lanes 2012

Bowker Overpass  
Bike & Ped Path

Mass Ave.  
(Harvard) Bridge  
Bike Lanes 2014

# WHAT IS ARCGIS ONLINE?

- ArcGIS Online is Esri's web/server based GIS interface.
- Often referred to as AGOL, MassDOT's internal site is called geoDOT.
- Acts as a portal for organizations who wish to create a common space for all their GIS users.



# WHAT IS GEODOT?

- geoDOT is a portal created by the Massachusetts Department of Transportation (MassDOT) Office of Transportation Planning to support the Massachusetts Open Data Initiative. The initiative hopes to increase government transparency and accountability, encourage other beneficial public and private data use and innovation allowing anyone to leverage the potential of MassDOT data through the development of applications and services that address public and private demands.

# GEODOT HOME PAGE

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION

Quinn

**geoDOT**  
GIS For Transportation

**Toolbar** →

**Products** →

- customize  
Custom Requests  
Custom Requests
-   
Data and Maps  
Data and Maps
-   
Inventory Editor  
Inventory Editor
-   
Reports  
Download Reports

**Services** →

- ENTER  
*geoDOT*  
State Employee Login
- Training  
ArcGIS Online Training Videos
- Request Access  
*geoDOT*  
Request Access to geoDOT

Photo Courtesy of: Larry Fay

# TOOLBAR



- **Home**
  - Main AGOL site
- **Gallery**
  - Collection of popular web maps and apps
- **Map**
  - Create your own web map from the basic AGOL template
- **Groups**
  - Look at content and updates in the groups of which you are a part.
- **My Content**
  - Features, Maps, and apps you have produced in AGOL.
- **My Organization**
  - Where organization membership, member details, and settings can be accessed.



# PRODUCTS

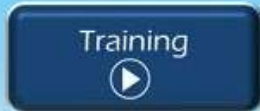
- Custom Requests
  - Map/Data requests
- Data and Maps
  - Download by category
- Inventory Editor
  - Esri Roads and Highway Interface
- Reports
  - PDF downloads of:
    - Road Inventory
    - Bike Inventory
    - Household Travel Survey
    - Local Highway Finance



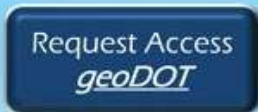
# SERVICES



State Employee Login



ArcGIS Online Training Videos



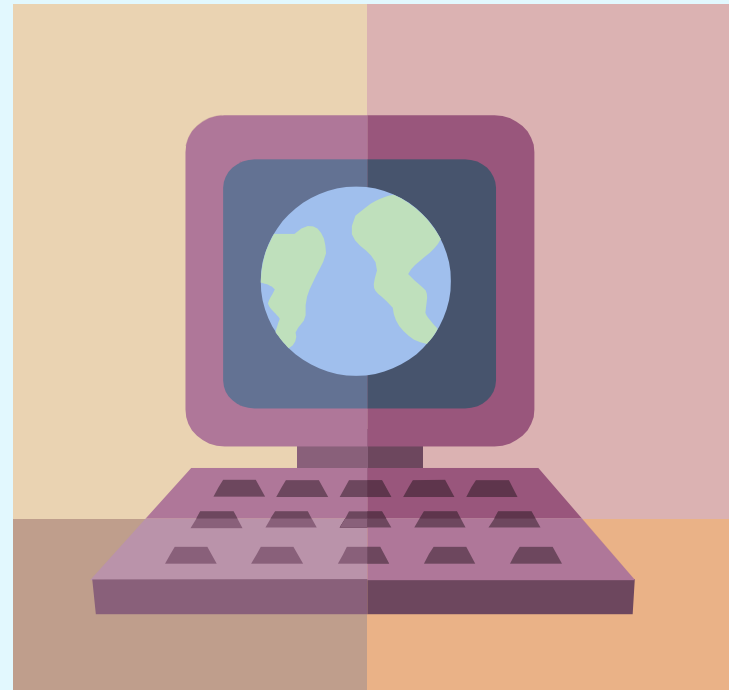
Request Access to geoDOT

- **State Employee Login**
  - That's you!
- **AGOL Training Vids**
  - Get tips to perfect your AGOL skills
- **Request Access to geoDOT**
  - You will be assigned a username and password.



# EXAMPLE PRIMARY USES

- Road Inventory Editor
- Web mapping tool
- Open Data
  - Spatial Data download



# ROAD INVENTORY EDITOR

Early Roads and Highways v10.2.2.156 - Roadway Characteristics Editor

Map Edit Review

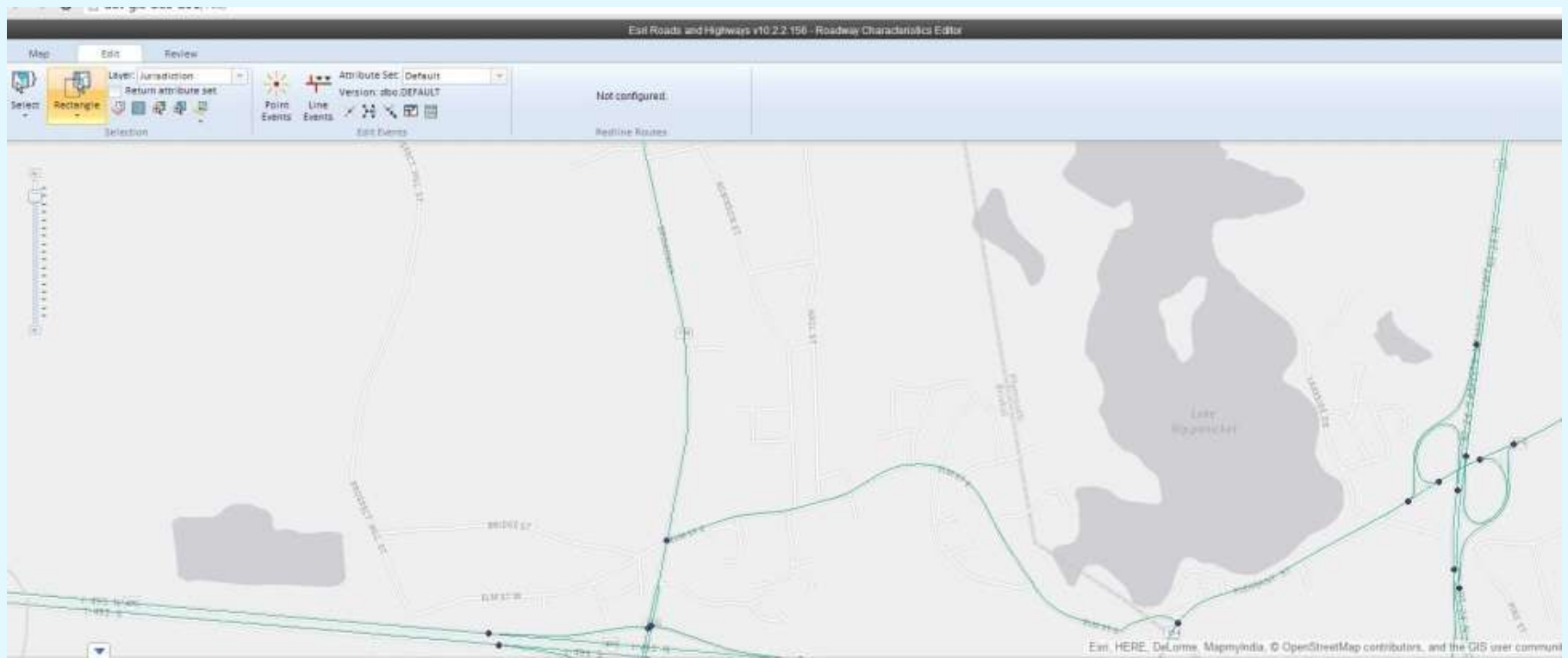
Layer: Jurisdiction  
Return attribute set

Select Rectangle

Point Events  
Line Events  
Edit Events

Not configured.

Redline Routes

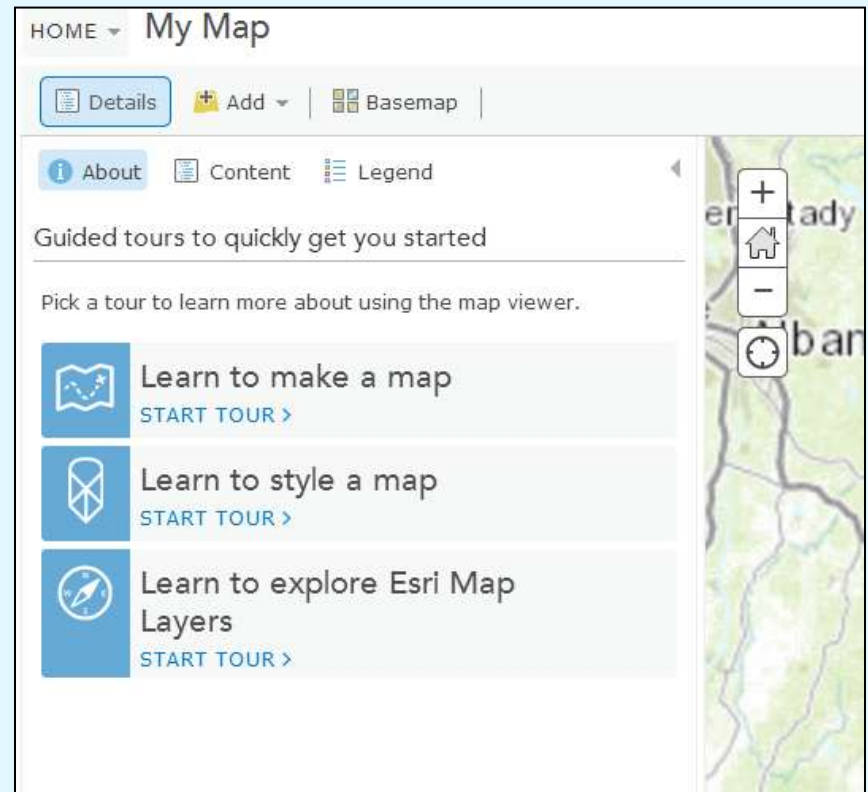


From Date To Date EventID Route ID From Measure To Measure Jurisdiction Created By Date Created Edited By Date Edited LocError OBJECTID Shape.STLength

01/01/2004	<null>	8a74aad-7c4c-42b5-9076-0a3b7688cc03	SR138 NB	19.8181	32.9485	Massachusetts Department of Transportation	<null>	<null>	<null>	<null>	NO ERROR	25316	22623.7795619
01/01/2004	<null>	82b229e8-3391-4431-8d0e-c9a8fe5093a3	SR138 SB	10.3067	24.4389	Massachusetts Department of Transportation	<null>	<null>	<null>	<null>	NO ERROR	32994	22626.544425

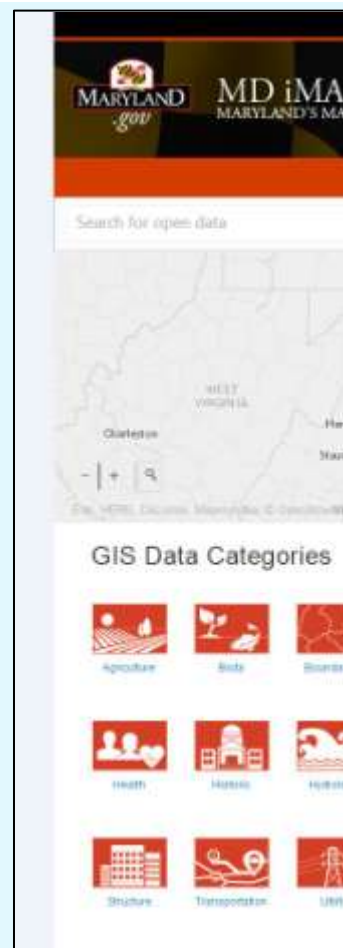
# MAP

- We're not going to teach you how to use this.
  - There are tutorials figure it out.
- Uses:
  - Think Google maps w/ more functionality
  - Collaboration
  - Data preview/basic analysis

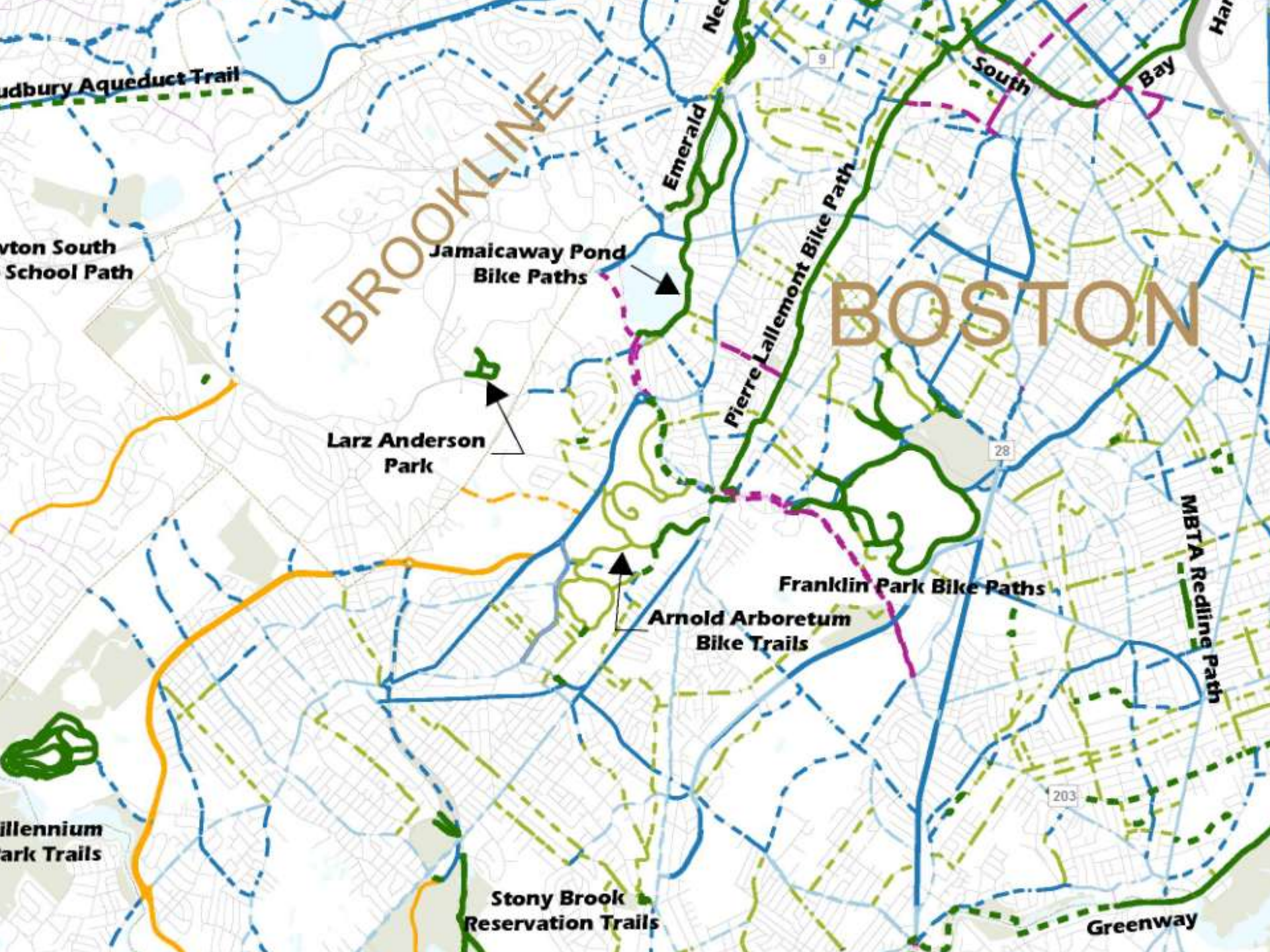


# OPEN DATA

- New Esri platform for data access and download
- All publically available spatial data maintained by MassDOT.
- Formats:
  - SHP, XML, CSV, etc.







Judbury Aqueduct Trail

Newton South School Path

BROOKLINE

Jamaicaway Pond Bike Paths

Larz Anderson Park

Millennium Park Trails

Stony Brook Reservation Trails

Arnold Arboretum Bike Trails

Franklin Park Bike Paths

Pierre Lallemand Bike Path

BOSTON

MBTA Redline Path

Greenway



## Facility Status, Facility Type

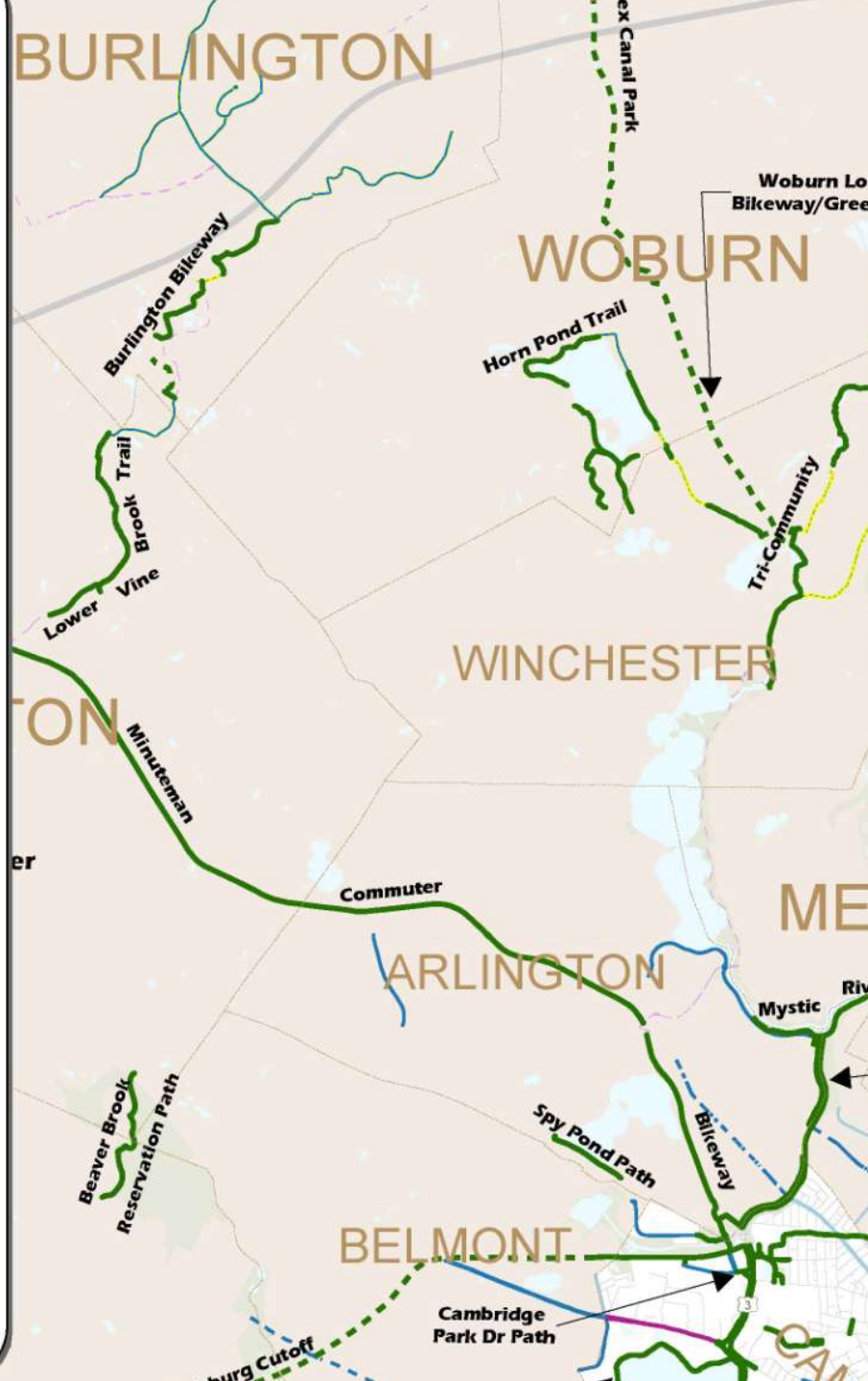
- Existing - Shared use path
- Existing - Bike lane
- Existing - Cycle track
- Existing - Marked shared lane
- Existing - Sign-posted on-road bike route
- Bay State Greenway

## Facility Inventory

- Existing - Shared use path
- Proposed - Shared use path
- Existing - Bike lane
- Proposed - Bike lane
- Existing - Cycle track
- Proposed - Cycle track
- Existing - Paved bike shoulder
- Proposed - Paved bike shoulder
- Existing - Marked shared lane
- Proposed - Marked shared lane
- Existing - Bicycle/Pedestrian priority roadway
- Proposed - Bicycle/Pedestrian priority roadway
- Existing - Sign-posted on-road bike route
- Proposed - Sign-posted on-road bike route
- Existing - Hybrid
- Proposed - Hybrid
- Proposed - On-Road - To Be Determined

## Other Map Features

- Interstate
- Roads
- Municipal Boundary
- Permanent Open Space
- Other District
- Neighboring State
- Water





# THANKS

- Any questions?

- If you have any further comments  
contact GIS Services in the MassDOT

Planning Office:

[dot.gisservices@state.ma.us](mailto:dot.gisservices@state.ma.us)

- [Peter.sutton@state.ma.us](mailto:Peter.sutton@state.ma.us)